

ROBERT E. BUSHNELL*†

JOSEPH G. SEEGER*

DARREN R. CREW+*

MATTHEW J. LESTINA†*

SARYADVINDER S. SAHOTA†*

JONG H. PARK†

FRANK J. DYNDAL*

OF COUNSEL

RICHARD H. STERN*

MICHAEL D. PARKER

(REG. PATENT AGENT)

† ADMITTED IN MARYLAND

* ADMITTED IN VIRGINIA

+ ADMITTED IN PENNSYLVANIA

‡ ADMITTED IN NEW YORK

° ADMITTED IN CONNECTICUT

* ADMITTED IN NEW JERSEY

* NOT ADMITTED IN D.C.

R. E. BUSHNELL

ATTORNEY AT LAW

1522 K STREET, N.W., SUITE 300

WASHINGTON, D.C. 20005-1202

UNITED STATES OF AMERICA

24 December 2003

INTELLECTUAL PROPERTY LAW

TELEPHONE (202) 408-9040

FACSIMILE (202) 289-7100

FACSIMILE (202) 628-3835

FACSIMILE (410) 747-0022

E-MAIL: REBUSHNELL@AOL.COM

☐ U.S. Postal Service

☐ Via Local Courier

☐ Via International Courier

☐ Via Facsimile No. _____

☐ Via E-Mail Attachment

☐ Please Acknowledge Receipt

2390 U.S. PTO
10/743749

Mail Stop : Patent Application

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

Attorney Docket: P56938

Submitted herewith is the following patent application:

Inventor: 1) YOUNG-HYUN KANG

Title: METHOD FOR BATCH REGISTRATION OF INTEGRATED
DIGITAL LOOP CARRIER SUBSCRIBER USING PROGRAM
LOADED DATA OF EXCHANGE, AND ELEMENT
MANAGEMENT SYSTEM SERVER FOR THE SAME

Please find attached hereto an application for patent which includes: Specification and Abstract, Claims, formal drawings, original Declaration and Power of Attorney, Information Disclosure Statement, an Assignment and certified copy of foreign priority document identified below:

Verified Showing of Small Entity Status: **NO**

Drawings: Formal drawings, 8 sheets, Figures 1 through 6C

Claim of priority under 35 U.S.C. §119: **YES**

** The Republic of Korea Application No. 2003-6229 filed on 30 January 2003.

FEE (see formula below): CHECKS ARE ENCLOSED (#45102 and #45103)

Basic Fee \$385/770 \$770.00

Additional Fees:

Total number of claims in excess of 20: ___ times \$9/18 \$0.00

Number of independent claims in excess of 3: ___ times \$43/86 \$0.00

Multiple Dependent Claims \$145/290 \$0.00

An Assignment is likewise enclosed: Recording Fee \$40 \$40.00

Filing Non-English specification \$0.00

TOTAL FEES FOR THE ABOVE APPLICATION **\$810.00**

Inventor: 1) YOUNG-HYUN KANG

Title: METHOD FOR BATCH REGISTRATION OF INTEGRATED
DIGITAL LOOP CARRIER SUBSCRIBER USING PROGRAM
LOADED DATA OF EXCHANGE, AND ELEMENT
MANAGEMENT SYSTEM SERVER FOR THE SAME

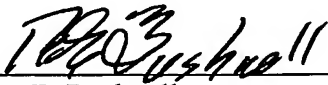
Assistant Commissioner is authorized to charge our Deposit Account No. 02-4943 for any additional charges necessary towards payment of the filing fee for the above-referenced application. Please notify the undersigned attorney of any transaction regarding our Deposit Account.

In view of the above, it is requested that this application be accorded a filing date pursuant to 37 CFR 1.53(b).

Please address all correspondence to:

Robert E. Bushnell
1522 K Street, N.W.
Suite 300
Washington, D.C. 20005

Respectfully submitted,



Robert E. Bushnell
(Registration No. 27,774)
Payor No.: 008-439
Attorney for the Applicant
1522 K Street, N.W.
Suite 300
Washington, D.C. 20005


Telephone: (202) 408-9040
Telefacsimile: (202) 289-7100

REB/rfc

13281
U.S. PTO

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PTO/SB/17 (08-00)
Approved for use through 9/30/2000. OMB 0651-0032
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

FEE TRANSMITTAL		Complete If Known																																																																																																																																																																																					
Patent fees are subject to annual revision.		Application Number	<i>to be assigned</i>																																																																																																																																																																																				
		Filing Date	24 December 2003																																																																																																																																																																																				
		First Named Inventor	YOUNG-HYUN KANG																																																																																																																																																																																				
		Examiner Name	<i>to be assigned</i>																																																																																																																																																																																				
		Group/Art Unit	<i>to be assigned</i>																																																																																																																																																																																				
TOTAL AMOUNT OF PAYMENT	(\$) 810.00	Attorney Docket No.	P56938																																																																																																																																																																																				
METHOD OF PAYMENT (check one)		FEE CALCULATION (continued)																																																																																																																																																																																					
1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:		3. ADDITIONAL FEES																																																																																																																																																																																					
Deposit Account Number: <u>02-4943</u> Deposit Account Number: _____		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr> <td>1051</td> <td>130</td> <td>2051</td> <td>65</td> <td>Surcharge-late filing fee or oath</td> <td>\$</td> </tr> <tr> <td>1052</td> <td>50</td> <td>2052</td> <td>25</td> <td>Surcharge-late provisional filing fee or cover sheet</td> <td>\$</td> </tr> <tr> <td>1053</td> <td>130</td> <td>1053</td> <td>130</td> <td>Non-English specification</td> <td>\$</td> </tr> <tr> <td>1812</td> <td>2,520</td> <td>1812</td> <td>2,520</td> <td>For filing a request for reexamination</td> <td>\$</td> </tr> <tr> <td>1804</td> <td>920*</td> <td>1804</td> <td>920*</td> <td>Requesting publication of SIR prior to Examiner action</td> <td>\$</td> </tr> <tr> <td>1805</td> <td>1,840 *</td> <td>1805</td> <td>1,840*</td> <td>Requesting publication of SIR after Examiner action</td> <td>\$</td> </tr> <tr> <td>1251</td> <td>110</td> <td>2251</td> <td>55</td> <td>Extension for reply within first month</td> <td>\$</td> </tr> <tr> <td>1252</td> <td>420</td> <td>2252</td> <td>210</td> <td>Extension for reply within second month</td> <td>\$</td> </tr> <tr> <td>1253</td> <td>950</td> <td>2253</td> <td>475</td> <td>Extension for reply within third month</td> <td>\$</td> </tr> <tr> <td>1254</td> <td>1,480</td> <td>2254</td> <td>740</td> <td>Extension for reply within fourth month</td> <td>\$</td> </tr> <tr> <td>1255</td> <td>2,010</td> <td>2255</td> <td>1,005</td> <td>Extension for reply within fifth month</td> <td>\$</td> </tr> <tr> <td>1401</td> <td>330</td> <td>2401</td> <td>165</td> <td>Notice of Appeal</td> <td>\$</td> </tr> <tr> <td>1402</td> <td>330</td> <td>2402</td> <td>165</td> <td>Filing a brief in support of an appeal</td> <td>\$</td> </tr> <tr> <td>1403</td> <td>290</td> <td>2403</td> <td>145</td> <td>Request for oral hearing</td> <td>\$</td> </tr> <tr> <td>1451</td> <td>1,510</td> <td>1451</td> <td>1,510</td> <td>Petition to institute a public use proceeding</td> <td>\$</td> </tr> <tr> <td>1452</td> <td>110</td> <td>2452</td> <td>55</td> <td>Petition to revive - unavoidable</td> <td>\$</td> </tr> <tr> <td>1453</td> <td>1,330</td> <td>2453</td> <td>665</td> <td>Petition to revive - unintentional</td> <td>\$</td> </tr> <tr> <td>1501</td> <td>1,330</td> <td>2501</td> <td>665</td> <td>Utility issue fee (or reissue)</td> <td>\$</td> </tr> <tr> <td>1502</td> <td>480</td> <td>2502</td> <td>240</td> <td>Design issue fee</td> <td>\$</td> </tr> <tr> <td>1503</td> <td>640</td> <td>2503</td> <td>320</td> <td>Plant issue fee</td> <td>\$</td> </tr> <tr> <td>1460</td> <td>130</td> <td>1460</td> <td>130</td> <td>Petitions to the Commissioner</td> <td>\$</td> </tr> <tr> <td>1807</td> <td>50</td> <td>1807</td> <td>50</td> <td>Processing fee for provisional applications</td> <td>\$</td> </tr> <tr> <td>1806</td> <td>180</td> <td>1806</td> <td>180</td> <td>Submission of Information Disclosure Statement</td> <td>\$</td> </tr> <tr> <td>8021</td> <td>40</td> <td>8021</td> <td>40</td> <td>Recording each patent assignment per property (Times number of properties)</td> <td>\$ 40.00</td> </tr> <tr> <td>1809</td> <td>770</td> <td>2809</td> <td>385</td> <td>Filing a submission after final rejection (37 C.F.R. §1.129(a))</td> <td>\$</td> </tr> <tr> <td>1810</td> <td>770</td> <td>2810</td> <td>385</td> <td>For each additional invention to be examined (37 C.F.R. §1.129(b))</td> <td>\$</td> </tr> <tr> <td>1801</td> <td>770</td> <td>2801</td> <td>385</td> <td>Request for Continued Examination (RCE)</td> <td>\$</td> </tr> <tr> <td colspan="4">Other Fee (specify) _____ \$</td> </tr> <tr> <td colspan="4">Other Fee (specify) _____ \$</td> </tr> </tbody> </table>		Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	1051	130	2051	65	Surcharge-late filing fee or oath	\$	1052	50	2052	25	Surcharge-late provisional filing fee or cover sheet	\$	1053	130	1053	130	Non-English specification	\$	1812	2,520	1812	2,520	For filing a request for reexamination	\$	1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	\$	1805	1,840 *	1805	1,840*	Requesting publication of SIR after Examiner action	\$	1251	110	2251	55	Extension for reply within first month	\$	1252	420	2252	210	Extension for reply within second month	\$	1253	950	2253	475	Extension for reply within third month	\$	1254	1,480	2254	740	Extension for reply within fourth month	\$	1255	2,010	2255	1,005	Extension for reply within fifth month	\$	1401	330	2401	165	Notice of Appeal	\$	1402	330	2402	165	Filing a brief in support of an appeal	\$	1403	290	2403	145	Request for oral hearing	\$	1451	1,510	1451	1,510	Petition to institute a public use proceeding	\$	1452	110	2452	55	Petition to revive - unavoidable	\$	1453	1,330	2453	665	Petition to revive - unintentional	\$	1501	1,330	2501	665	Utility issue fee (or reissue)	\$	1502	480	2502	240	Design issue fee	\$	1503	640	2503	320	Plant issue fee	\$	1460	130	1460	130	Petitions to the Commissioner	\$	1807	50	1807	50	Processing fee for provisional applications	\$	1806	180	1806	180	Submission of Information Disclosure Statement	\$	8021	40	8021	40	Recording each patent assignment per property (Times number of properties)	\$ 40.00	1809	770	2809	385	Filing a submission after final rejection (37 C.F.R. §1.129(a))	\$	1810	770	2810	385	For each additional invention to be examined (37 C.F.R. §1.129(b))	\$	1801	770	2801	385	Request for Continued Examination (RCE)	\$	Other Fee (specify) _____ \$				Other Fee (specify) _____ \$			
Large Entity		Small Entity		Fee Description	Fee Paid																																																																																																																																																																																		
Fee Code	Fee (\$)	Fee Code	Fee (\$)																																																																																																																																																																																				
1051	130	2051	65	Surcharge-late filing fee or oath	\$																																																																																																																																																																																		
1052	50	2052	25	Surcharge-late provisional filing fee or cover sheet	\$																																																																																																																																																																																		
1053	130	1053	130	Non-English specification	\$																																																																																																																																																																																		
1812	2,520	1812	2,520	For filing a request for reexamination	\$																																																																																																																																																																																		
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	\$																																																																																																																																																																																		
1805	1,840 *	1805	1,840*	Requesting publication of SIR after Examiner action	\$																																																																																																																																																																																		
1251	110	2251	55	Extension for reply within first month	\$																																																																																																																																																																																		
1252	420	2252	210	Extension for reply within second month	\$																																																																																																																																																																																		
1253	950	2253	475	Extension for reply within third month	\$																																																																																																																																																																																		
1254	1,480	2254	740	Extension for reply within fourth month	\$																																																																																																																																																																																		
1255	2,010	2255	1,005	Extension for reply within fifth month	\$																																																																																																																																																																																		
1401	330	2401	165	Notice of Appeal	\$																																																																																																																																																																																		
1402	330	2402	165	Filing a brief in support of an appeal	\$																																																																																																																																																																																		
1403	290	2403	145	Request for oral hearing	\$																																																																																																																																																																																		
1451	1,510	1451	1,510	Petition to institute a public use proceeding	\$																																																																																																																																																																																		
1452	110	2452	55	Petition to revive - unavoidable	\$																																																																																																																																																																																		
1453	1,330	2453	665	Petition to revive - unintentional	\$																																																																																																																																																																																		
1501	1,330	2501	665	Utility issue fee (or reissue)	\$																																																																																																																																																																																		
1502	480	2502	240	Design issue fee	\$																																																																																																																																																																																		
1503	640	2503	320	Plant issue fee	\$																																																																																																																																																																																		
1460	130	1460	130	Petitions to the Commissioner	\$																																																																																																																																																																																		
1807	50	1807	50	Processing fee for provisional applications	\$																																																																																																																																																																																		
1806	180	1806	180	Submission of Information Disclosure Statement	\$																																																																																																																																																																																		
8021	40	8021	40	Recording each patent assignment per property (Times number of properties)	\$ 40.00																																																																																																																																																																																		
1809	770	2809	385	Filing a submission after final rejection (37 C.F.R. §1.129(a))	\$																																																																																																																																																																																		
1810	770	2810	385	For each additional invention to be examined (37 C.F.R. §1.129(b))	\$																																																																																																																																																																																		
1801	770	2801	385	Request for Continued Examination (RCE)	\$																																																																																																																																																																																		
Other Fee (specify) _____ \$																																																																																																																																																																																							
Other Fee (specify) _____ \$																																																																																																																																																																																							
2. <input type="checkbox"/> Charge Any Additional Fee Required Under 37 C.F.R. §1.16 and 1.17. 2. <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27																																																																																																																																																																																							
2. <input checked="" type="checkbox"/> Payment Enclosed: (CHECK #45102 & #45103) <input checked="" type="checkbox"/> Check <input type="checkbox"/> Credit Card <input type="checkbox"/> Money Order <input type="checkbox"/> Other																																																																																																																																																																																							
FEE CALCULATION																																																																																																																																																																																							
1. BASIC FILING FEE <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr> <td>1001</td> <td>770</td> <td>2001</td> <td>385</td> <td>Utility filing fee</td> <td>\$ 770.00</td> </tr> <tr> <td>1002</td> <td>340</td> <td>2002</td> <td>170</td> <td>Design filing fee</td> <td>\$</td> </tr> <tr> <td>1003</td> <td>530</td> <td>2003</td> <td>265</td> <td>Plant filing fee</td> <td>\$</td> </tr> <tr> <td>1004</td> <td>770</td> <td>2004</td> <td>385</td> <td>Reissue filing fee</td> <td>\$</td> </tr> <tr> <td>1005</td> <td>160</td> <td>2005</td> <td>80</td> <td>Provisional filing fee</td> <td>\$</td> </tr> <tr> <td colspan="4">SUBTOTAL (1)</td> <td>(\$)<u>770.00</u></td> <td></td> </tr> </tbody> </table>		Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	1001	770	2001	385	Utility filing fee	\$ 770.00	1002	340	2002	170	Design filing fee	\$	1003	530	2003	265	Plant filing fee	\$	1004	770	2004	385	Reissue filing fee	\$	1005	160	2005	80	Provisional filing fee	\$	SUBTOTAL (1)				(\$)<u>770.00</u>																																																																																																																																									
Large Entity		Small Entity		Fee Description	Fee Paid																																																																																																																																																																																		
Fee Code	Fee (\$)	Fee Code	Fee (\$)																																																																																																																																																																																				
1001	770	2001	385	Utility filing fee	\$ 770.00																																																																																																																																																																																		
1002	340	2002	170	Design filing fee	\$																																																																																																																																																																																		
1003	530	2003	265	Plant filing fee	\$																																																																																																																																																																																		
1004	770	2004	385	Reissue filing fee	\$																																																																																																																																																																																		
1005	160	2005	80	Provisional filing fee	\$																																																																																																																																																																																		
SUBTOTAL (1)				(\$)<u>770.00</u>																																																																																																																																																																																			
2. EXTRA CLAIM FEES <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Total claims</th> <th>Independent Claims</th> <th>Multiple Dependent</th> <th>Extra Claims</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td></td> <td>12</td> <td>3</td> <td></td> <td>-20** = 0</td> <td>x 18.00 =</td> <td>0.00</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>-3** = 0</td> <td>x 86.00 =</td> <td>0.00</td> </tr> <tr> <td colspan="6"></td> <td>=</td> </tr> </tbody> </table> <p>** or number previously paid, if greater; For Reissues, see below</p>			Total claims	Independent Claims	Multiple Dependent	Extra Claims	Fee from below	Fee Paid		12	3		-20** = 0	x 18.00 =	0.00					-3** = 0	x 86.00 =	0.00							=																																																																																																																																																										
	Total claims	Independent Claims	Multiple Dependent	Extra Claims	Fee from below	Fee Paid																																																																																																																																																																																	
	12	3		-20** = 0	x 18.00 =	0.00																																																																																																																																																																																	
				-3** = 0	x 86.00 =	0.00																																																																																																																																																																																	
						=																																																																																																																																																																																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr> <td>1201</td> <td>86</td> <td>2201</td> <td>43</td> <td>Independent claims in excess of 3</td> <td></td> </tr> <tr> <td>1202</td> <td>18</td> <td>2202</td> <td>9</td> <td>Claims in excess of 20</td> <td></td> </tr> <tr> <td>1203</td> <td>290</td> <td>2203</td> <td>145</td> <td>Multiple dependent claim, if not paid</td> <td></td> </tr> <tr> <td>1204</td> <td>86</td> <td>2204</td> <td>43</td> <td>** Reissue independent claims over original patent</td> <td></td> </tr> <tr> <td>1205</td> <td>18</td> <td>2205</td> <td>9</td> <td>** Reissue claims in excess of 20 and over original patent</td> <td></td> </tr> <tr> <td colspan="4">SUBTOTAL (2)</td> <td>(\$)<u>0.00</u></td> <td></td> </tr> </tbody> </table>		Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	1201	86	2201	43	Independent claims in excess of 3		1202	18	2202	9	Claims in excess of 20		1203	290	2203	145	Multiple dependent claim, if not paid		1204	86	2204	43	** Reissue independent claims over original patent		1205	18	2205	9	** Reissue claims in excess of 20 and over original patent		SUBTOTAL (2)				(\$)<u>0.00</u>																																																																																																																																									
Large Entity		Small Entity		Fee Description	Fee Paid																																																																																																																																																																																		
Fee Code	Fee (\$)	Fee Code	Fee (\$)																																																																																																																																																																																				
1201	86	2201	43	Independent claims in excess of 3																																																																																																																																																																																			
1202	18	2202	9	Claims in excess of 20																																																																																																																																																																																			
1203	290	2203	145	Multiple dependent claim, if not paid																																																																																																																																																																																			
1204	86	2204	43	** Reissue independent claims over original patent																																																																																																																																																																																			
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent																																																																																																																																																																																			
SUBTOTAL (2)				(\$)<u>0.00</u>																																																																																																																																																																																			
		SUBTOTAL (3) \$40.00																																																																																																																																																																																					
SUBMITTED BY		Complete (if applicable)																																																																																																																																																																																					
Typed or Printed Name	Robert E. Bushnell, Esq.	R g. Numb r	27,774																																																																																																																																																																																				
Signature		Date	24 December 2003																																																																																																																																																																																				
		Deposit Account User ID																																																																																																																																																																																					

REB/rfc

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.